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The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

December 27, 2013

Mr. Angel Rodriguez, On-Scene Coordinator
U.S. Environmental Protection Agency
Response and Prevention Branch
Caribbean Environmental Protection Division, Region II
1492 Peñuelas De Leon Ave., Suite 417
San Juan, PR 00907-4127

EPA CONTRACT No.: EP-W-06-072

TDD No.: TO-0029-0122

DOCUMENT CONTROL No.: RST 2-02-F-2669

**SUBJECT: PHASE IIIA REMOVAL ASSESSMENT SAMPLING TRIP REPORT –
PUERTO RICO OLEFINS ASBESTOS SITE, PEÑUELAS, PUERTO RICO**

Dear Mr. Rodriguez,

Enclosed please find the Phase IIIA Removal Assessment Sampling Trip Report for the wipe sampling activities conducted on December 12 and 13, 2013 at the Jorge Lucas Perez Valdivieso School as part of the Puerto Rico Olefins Asbestos Site Removal Assessment located in Peñuelas, Puerto Rico. If you have any questions or comments, please do not hesitate to contact me at (787) 354-2489.

Sincerely,

Weston Solutions, Inc.

for Carlos Huertas
RST 2 Site Project Manager

Enclosure

cc: TDD File No.: TO-0029-0122

**PHASE IIIA REMOVAL ASSESSMENT
SAMPLING TRIP REPORT
PUERTO RICO OLEFINS ASBESTOS SITE
PEÑUELAS, PUERTO RICO**

Prepared for:

U.S. Environmental Protection Agency
Region II – Response and Prevention Branch
Edison, New Jersey 08837

Prepared by:

Removal Support Team 2
Weston Solutions, Inc.
East Division
Edison, New Jersey 08837

DC No.: RST 2-02-F-2669
TDD No.: TO-0029-0122
EPA Contract No.: EP-W-06-072

December 2013

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PHASE IIIA REMOVAL ASSESSMENT SAMPLING TRIP REPORT

SITE NAME: Puerto Rico Olefins Asbestos Site –
(Jorge Lucas Perez Valdivieso School)
DC No.: RST 2-02-F-2669
TDD No.: TO-0029-0122
SAMPLING DATES: December 12 and 13, 2013

- 1. Site Location:** Peñuelas, Puerto Rico (17°59'49.37"N / 66°43'10.17"W)
Refer to Attachment A, Figure 1: Site Location Map.
- 2. Sample Descriptions:** 90 wipe samples, including five field blanks and one lot blank.
Refer to Attachment A, Figure 2: Sample Location Map and
Attachment B, Table 1: Sample Collection Information Table.

3. Laboratory Receiving Samples:

Lab Name/Location	Sample Type	Parameters
EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077	Wipe	Asbestos

4. Sample Dispatch Data:

On December 13, 2013, Weston Solutions Inc., Removal Support Team 2 (RST 2) shipped 90 wipe samples, including five field blanks and one lot blank, to the EMSL Analytical, Inc. laboratory located in Cinnaminson, New Jersey for asbestos analysis under Chain of Custody (COC) Numbers (Nos.) 2-121213-105237-0004, 2-121313-112124-0005, 2-121313-112316-0006, 2-121313-112434-0007, and 2-121313-112542-0008 and FedEx Airbill No. 804298940331. Refer to Attachment C: Chain of Custody Records and FedEx Airbill.

5. Personnel On Site:

<u>Name</u>	<u>Representing</u>	<u>Duties On-Site</u>
Angel Rodriguez	U.S. EPA, Region II	On-Scene Coordinator
Miguel Rodriguez	Jorge Lucas Perez Valdivieso School	School Director
Carlos Huertas	RST 2, Region II	Site Project Manager, Field Coordinator, Site Health and Safety, Sample Collection and Sample Management
Emilio Betancourt	RST 2, Region II	Sample Collection and Sample Management
Joel Petty	RST 2, Region II	Sample Collection, Site QA/QC and Sample Management

6. Site Background:

The Puerto Rico Olefins Asbestos Site (the Site) is located at Road 385, KM 5.4, Tallaboa, Poniente Peñuelas, Puerto Rico. During a visual inspection, the U.S. Environmental Protection Agency (EPA) identified fugitive dust clouds migrating out of the facility during demolition activities conducted by HOMECA Inc. Beginning in 2010 and continuing until the present, an asbestos abatement occurred at the Site. Improper asbestos abatement techniques may have been used at the Site resulting in potential asbestos contamination throughout the Site and in residential neighborhoods downwind of the Site.

On November 21, 2013, as part of Phase I of the Removal Assessment, the EPA On-Scene Coordinator (OSC), EPA Air Program representative, and RST 2 mobilized to the Site to perform multi-media sampling. As directed by the EPA OSC, RST 2 collected five bulk samples, including one field duplicate, four soil samples, including one field duplicate, and 10 wipe samples, including one wipe blank. Bulk samples were collected and submitted for asbestos analysis via EPA 600/R-93/116 Method using Polarized Light Microscopy (PLM). Soil samples were collected and submitted for asbestos analysis via modified EPA 600/R-93/116 Method using Transmission Electron Microscopy (TEM) with California Air Resource Board (CARB) 435 prep. Wipe samples were collected and submitted for asbestos analysis via American Society for Testing Materials (ASTM) 6480-05 Method. Samples were collected from outside areas where suspected asbestos contamination may have occurred and inside areas where asbestos may have entered the building.

On December 13, 2013, as part of Phase I of the Removal Assessment, the EPA OSC and RST 2 remobilized to the Site to collect two additional bulk samples. The additional bulk samples were collected from two specific locations as directed by the EPA OSC. The two bulk samples were collected and submitted for asbestos analysis via EPA 600/R-93/116 Method using PLM. Samples were collected from outside areas where suspected asbestos contamination may have occurred.

Based on the validated analytical results of the samples collected as part of Phase I of the Removal Assessment, asbestos was detected in bulk samples ranging from non-detect to 40 percent (%) amosite and 20% chrysotile, in soil samples ranging from 3 amosite/chrysotile asbestos structures to 9 amosite/chrysotile asbestos structures, and in wipe samples ranging from 7,760 structures per square centimeter (str/cm²) to 374,000 str/cm². The two additional bulk samples collected on December 13, 2013 were both non-detect for asbestos. The wipe blank sample was non-detect for asbestos.

On December 4 and 5, 2013, as part of Phase II of the Removal Assessment, the EPA OSC and RST 2 mobilized to the Jorge Lucas Perez Valdivieso School, located approximately 0.25 miles south of the Site, to conduct air sampling activities within classrooms identified by the EPA OSC. The school is separated into two areas referred to be RST 2 as Area 1 and Area 2. The two separate areas are separated by a road way. As directed by the EPA OSC, RST 2 established three air sampling stations within eight of the schools classrooms (CR01 through CR08). Air samples were collected from each of the established air sampling stations within each classroom but per the request of the EPA OSC only one of the air samples from each of the classrooms was submitted for asbestos analysis.

On December 5, 2013, as part of Phase II of the Removal Assessment, RST 2 shipped 11 air samples, including two lot blanks and one field blank, to the EMSL Analytical, Inc. laboratory for asbestos analysis via Method ISO 10312 - International Standard for the Determination of Asbestos Fibers - Direct Transfer. Per the request of the EPA OSC, on December 13, 2013, RST 2 shipped the additional two air samples collected on December 4, 2013 from classroom CR01 to the EMSL Analytical, Inc. laboratory for asbestos analysis via Method ISO 10312 - International Standard for the Determination of Asbestos Fibers - Direct Transfer.

Based on the validated analytical results of the samples collected as part of Phase II of the Removal Assessment, chrysotile asbestos was detected in eight of the 10 field air samples submitted for asbestos analysis. The total number of asbestos structures in the positive detections ranged between 2 and 25. The reported concentrations in the positive detections ranged between 0.0004 structures per centimeter (s/cc) and 0.0032 s/cc.

As part of Phase IIIA of the investigation, RST 2 was tasked with conducting wipe sampling within the Jorge Lucas Perez Valdivieso School classrooms.

7. Phase IIIA Removal Assessment Summary:

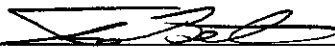
On December 12 and 13, 2013, the EPA OSC and RST 2 mobilized to the Jorge Lucas Perez Valdivieso School to perform wipe sampling within the classrooms of the school. As directed by the EPA OSC, RST 2 collected three wipe samples from each classroom. The areas identified in each classroom to be sampled were the entrance, near a window, and the dustiest area in the room. A total of 90 wipe samples, including five field blanks and one lot blank, were collected from 28 classrooms (CR01 through CR29, excluding CR27). Classroom CR27 and some other general areas of the school were not sampled due to the fact that the areas were not accessible or as directed by the EPA OSC. Wipe samples were collected and submitted for asbestos analysis via American Society for Testing Materials (ASTM) 6480-05 Method. Refer to Attachment D for the Photographic Documentation Log for the Phase IIIA Removal Assessment sampling event.

Surface dust samples were collected from areas where suspected asbestos contamination may have occurred (*i.e.*, dusty areas within each classroom and near windows), utilizing dedicated Ghost Wipes™. Samples were collected following the general guidance within the HUD Guidelines, Chapter 5: Risk Assessment. Each sample was collected from a 10 cm by 10 cm square (100 cm²) area utilizing EPA Environmental Response Team (ERT) Standard Operating Procedure (SOP) Nos. 2001, General Field Sampling Guidelines and 2011, Chip, Wipe, and Sweep Sampling, as well as NIOSH Method 9100, as guidance.

8. Analytical Discussion:

Based on the validated analytical results of the samples collected as part of Phase IIIA of the Removal Assessment, asbestos was detected in wipe samples ranging from non-detect to 363,000 str/cm². The wipe blanks samples were non-detect for asbestos. Refer to Attachment B, Table 2: Validated Analytical Data Summary.

Report prepared by:

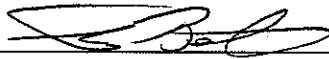


for Carlos Huertas
RST 2 Site Project Manager

Date:

12/27/13

Report reviewed by:



Timothy Benton
RST 2 Operations Manager

Date:

12/27/13

ATTACHMENT A

Figure 1: Site Location Map
Figure 2: Sample Location Map



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

Legend



Site Location

0 0.05 0.1 0.2 0.3 0.4
Miles



Weston Solutions, Inc.
East Division

In Association With
H & S Environmental, Inc.,
Scientific and Environmental Associates, Inc.
and Avatar Environmental, LLC.

Figure 1 Site Location Map

**Puerto Rico Olefins Asbestos
Penuelas, Puerto Rico**

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072

DATE MODIFIED: 12/26/2013
GIS ANALYST: T. BENTON
EPA OSC: A. RODRIGUEZ
RST SPM: C. HUERTAS
FILENAME: SITEMAP.MXD



Puerto Rico
Olefins Asbestos Site

Jorge Lucas Perez
Valdivieso School

Source: Esri, DigitalGlobe,
GeoEye, i-cubed, USDA,
USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SCALE

1:432

LEGEND

School Room

Figure 2
Sample Location Map

Puerto Rico Olefins Asbestos Site
Penuelas, Puerto Rico

UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072

Weston Solutions, Inc.

In Association With
Avatar Environmental, LLC,
H & S Environmental, Inc. and
Scientific and Environmental Associates, Inc.,

GIS ANALYST:	T. BENTON
EPA OSC:	A. RODRIGUEZ
RST 2 SPM:	C. HUERTAS
FILENAME:	Wipe Sample Map.mxd
FIGURE:	2
REVISION:	0
DATE MODIFIED:	12/26/2013

WESTON
SOLUTIONS

ATTACHMENT B

Table 1: Sample Collection Information Table

Table 2: Validated Analytical Data Summary

Table 1: Sample Collection Information Table
Puerto Rico Olefins Asbestos Site
Peñuelas, Puerto Rico
December 12 and 13, 2013

Sample No.	Classroom	Sample Area	Area Surface	Sample Location	Sample Date	Sample Time	Matrix	Collection	Analysis	Sample Type
P0002-CR01-WP01-01	1	Entrance	Vinyl	Floor Tile	12/12/2013	14:47	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR01-WP02-01	1	Near Window	Metal	File Cabinet	12/12/2013	14:48	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR01-WP03-01	1	Dusty Area	Metal	Refrigerator	12/12/2013	14:49	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR02-WP01-01	2	Entrance	Concrete	Floor	12/12/2013	15:26	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR02-WP02-01	2	Near Window	Metal	File Cabinet	12/12/2013	15:27	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR02-WP03-01	2	Dusty Area	Metal	Refrigerator	12/12/2013	15:28	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR03-WP01-01	3	Entrance	Concrete	Floor	12/12/2013	16:13	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR03-WP02-01	3	Near Window	Wood	Shelf	12/12/2013	16:14	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR03-WP03-01	3	Dusty Area	Plastic	Television	12/12/2013	16:15	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR04-WP01-01	4	Entrance	Concrete	Floor	12/12/2013	16:02	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR04-WP02-01	4	Near Window	Wood	Book Shelf	12/12/2013	16:03	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR04-WP03-01	4	Dusty Area	Metal	Microwave	12/12/2013	16:04	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR05-WP01-01	5	Entrance	Concrete	Floor	12/13/2013	08:16	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR05-WP02-01	5	Near Window	Wood	Desk	12/13/2013	08:17	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR05-WP03-01	5	Dusty Area	Plastic	Television	12/13/2013	08:18	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR06-WP01-01	6	Entrance	Concrete	Floor	12/12/2013	14:14	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR06-WP02-01	6	Near Window	Wood	Desk	12/12/2013	14:15	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR06-WP03-01	6	Dusty Area	Metal	File Cabinet	12/12/2013	14:17	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR07-WP01-01	7	Entrance	Concrete	Floor	12/13/2013	08:52	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR07-WP02-01	7	Near Window	Wood	Desk	12/13/2013	08:53	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR07-WP03-01	7	Dusty Area	Plastic	Television	12/13/2013	08:54	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR08-WP01-01	8	Entrance	Concrete	Floor	12/13/2013	08:58	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR08-WP02-01	8	Near Window	Wood	Table	12/13/2013	08:59	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR08-WP03-01	8	Dusty Area	Metal	File Cabinet	12/13/2013	08:59	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR09-WP01-01	9	Entrance	Vinyl	Floor Tile	12/12/2013	14:07	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR09-WP02-01	9	Near Window	Metal	File Cabinet	12/12/2013	14:09	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR09-WP03-01	9	Dusty Area	Vinyl/Plastic	Desk	12/12/2013	14:12	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR10-WP01-01	10	Entrance	Concrete	Floor	12/12/2013	14:21	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR10-WP02-01	10	Near Window	Vinyl/Plastic	Desk	12/12/2013	14:23	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR10-WP03-01	10	Dusty Area	Vinyl/Plastic	Desk	12/12/2013	14:24	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR11-WP01-01	11	Entrance	Vinyl	Tile	12/13/2013	08:12	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR11-WP02-01	11	Near Window	Wood	Desk	12/13/2013	08:13	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR11-WP03-01	11	Dusty Area	Wood	Shelf	12/13/2013	08:14	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR12-WP01-01	12	Entrance	Concrete	Tile Floor	12/12/2013	14:26	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR12-WP02-01	12	Near Window	Metal	Bottom of Student Desk	12/12/2013	14:28	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR12-WP03-01	12	Dusty Area	Wood	Bookshelf	12/12/2013	14:29	Wipe	Grab	Asbestos - TEM	Field Sample

Table 1: Sample Collection Information Table
Puerto Rico Olefins Asbestos Site
Peñuelas, Puerto Rico
December 12 and 13, 2013

Sample No.	Classroom	Sample Area	Area Surface	Sample Location	Sample Date	Sample Time	Matrix	Collection	Analysis	Sample Type
P0002-CR13-WP01-01	13	Entrance	Vinyl	Floor Tile	12/12/2013	14:33	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR13-WP02-01	13	Near Window	Painted Wood	Cubby Shelf	12/12/2013	14:34	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR13-WP03-01	13	Dusty Area	Plastic	Storage Bin	12/12/2013	14:35	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR14-WP01-01	14	Entrance	Vinyl	Floor Tile	12/12/2013	14:37	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR14-WP02-01	14	Near Window	Metal	Book Shelf	12/12/2013	14:38	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR14-WP03-01	14	Dusty Area	Metal	Computer Desk Drawer	12/12/2013	14:39	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR15-WP01-01	15	Entrance	Vinyl	Floor Tile	12/12/2013	14:42	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR15-WP02-01	15	Near Window	Metal	Filing Cabinet	12/12/2013	14:43	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR15-WP03-01	15	Dusty Area	Metal	Computer Tower	12/12/2013	14:44	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR16-WP01-01	16	Entrance	Concrete	Floor	12/12/2013	15:08	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR16-WP02-01	16	Near Window	Wood	Shelve	12/12/2013	15:09	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR16-WP03-01	16	Dusty Area	Metal	Refrigerator	12/12/2013	15:10	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR17-WP01-01	17	Entrance	Concrete	Floor	12/12/2013	15:15	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR17-WP02-01	17	Near Window	Metal	Cabinet	12/12/2013	15:16	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR17-WP03-01	17	Dusty Area	Wood	Cabinet	12/12/2013	15:17	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR18-WP01-01	18	Entrance	Vinyl	Floor Tile	12/13/2013	08:23	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR18-WP02-01	18	Near Window	Wood	Desk	12/13/2013	08:24	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR18-WP03-01	18	Dusty Area	Wood	Desk	12/13/2013	08:25	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR19-WP01-01	19	Entrance	Concrete	Floor	12/12/2013	15:21	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR19-WP02-01	19	Near Window	Wood	Shelf	12/12/2013	15:22	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR19-WP03-01	19	Dusty Area	Wood	Shelf	12/12/2013	15:23	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR20-WP01-01	20	Entrance	Concrete	Floor	12/12/2013	15:32	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR20-WP02-01	20	Near Window	Wood	Shelf	12/12/2013	15:33	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR20-WP03-01	20	Dusty Area	Metal	Rolling Cart	12/12/2013	15:34	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR21-WP01-01	21	Entrance	Concrete	Floor	12/12/2013	15:38	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR21-WP02-01	21	Near Window	Coated Wood	Desk	12/12/2013	15:39	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR21-WP03-01	21	Dusty Area	Wood	Top of Closet	12/12/2013	15:40	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR22-WP01-01	22	Entrance	Vinyl	Floor Tile	12/12/2013	15:45	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR22-WP02-01	22	Near Window	Metal	Book Shelf	12/12/2013	15:46	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR22-WP03-01	22	Dusty Area	Metal	Rolling Cart	12/12/2013	15:47	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR23-WP01-01	23	Entrance	Concrete	Floor	12/12/2013	16:17	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR23-WP02-01	23	Near Window	Wood	Shelf	12/12/2013	16:18	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR23-WP03-01	23	Dusty Area	Metal	Bottom of Student Desk	12/12/2013	16:19	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR24-WP01-01	24	Entrance	Concrete	Floor	12/12/2013	16:09	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR24-WP02-01	24	Near Window	Wood	Book Shelf	12/12/2013	16:10	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR24-WP03-01	24	Dusty Area	Plastic	Diarama	12/12/2013	16:11	Wipe	Grab	Asbestos - TEM	Field Sample

Table 1: Sample Collection Information Table
 Puerto Rico Olefins Asbestos Site
 Peñuelas, Puerto Rico
 December 12 and 13, 2013

Sample No.	Classroom	Sample Area	Area Surface	Sample Location	Sample Date	Sample Time	Matrix	Collection	Analysis	Sample Type
P0002-CR25-WP01-01	25	Entrance	Vinyl	Tile	12/13/2013	08:28	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR25-WP02-01	25	Near Window	Wood	Shelf	12/13/2013	08:29	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR25-WP03-01	25	Dusty Area	Wood	Shelf	12/13/2013	08:30	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR26-WP01-01	26	Entrance	Concrete	Floor	12/13/2013	09:03	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR26-WP02-01	26	Near Window	Plastic	Shelf	12/13/2013	09:04	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR26-WP03-01	26	Dusty Area	Wood	Shelf	12/13/2013	09:05	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR28-WP01-01	28	Entrance	Concrete	Tile	12/13/2013	09:09	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR28-WP02-01	28	Near Window	Wood	Desk	12/13/2013	09:10	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR28-WP03-01	28	Dusty Area	Metal	Shelf	12/13/2013	09:11	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR29-WP01-01	29	Entrance	Concrete	Floor	12/13/2013	09:13	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR29-WP02-01	29	Near Window	Wood	Desk	12/13/2013	09:14	Wipe	Grab	Asbestos - TEM	Field Sample
P0002-CR29-WP03-01	29	Dusty Area	Metal	File Cabinet	12/13/2013	09:15	Wipe	Grab	Asbestos - TEM	Field Sample
FB1-121213	Blank	NA	NA	NA	12/12/2013	14:00	Wipe	Grab	Asbestos - TEM	Field Blank
FB1-121313	Blank	NA	NA	NA	12/13/2013	08:30	Wipe	Grab	Asbestos - TEM	Field Blank
FB2-121213	Blank	NA	NA	NA	12/12/2013	15:00	Wipe	Grab	Asbestos - TEM	Field Blank
FB2-121313	Blank	NA	NA	NA	12/13/2013	09:00	Wipe	Grab	Asbestos - TEM	Field Blank
FB3-121213	Blank	NA	NA	NA	12/12/2013	16:00	Wipe	Grab	Asbestos - TEM	Field Blank
LB-121213	Blank	NA	NA	NA	12/12/2013	14:00	Wipe	Grab	Asbestos - TEM	Lot Blank

NA: Not Applicable

TEM: Transmission Electron Microscopy

Table 2: Validated Analytical Data Summary
Puerto Rico Olefins Asbestos Site
Peñuelas, Puerto Rico
December 12 and 13, 2013

Sample #	Classroom	Sample Area	Area Surface	Sample Location	Sample Date	Sample Time	Matrix	Collection	Analysis	Sample Type	Asbestos Type	Asbestos Structures	Sensitivity * (str/cm²)	Concentration (str/cm²)
P0002-CR01-WP01-01	1	Entrance	Vinyl	Floor Tile	12/12/2013	14:47	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	3	970	2,910
P0002-CR01-WP02-01	1	Near Window	Metal	File Cabinet	12/12/2013	14:48	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	19	970	18,400
P0002-CR01-WP03-01	1	Dusty Area	Metal	Refrigerator	12/12/2013	14:49	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	25	1,940	48,500
P0002-CR02-WP01-01	2	Entrance	Concrete	Floor	12/12/2013	15:26	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	11	970	10,700
P0002-CR02-WP02-01	2	Near Window	Metal	File Cabinet	12/12/2013	15:27	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	5	970	4,850
P0002-CR02-WP03-01	2	Dusty Area	Metal	Refrigerator	12/12/2013	15:28	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	6	970	5,820
P0002-CR03-WP01-01	3	Entrance	Concrete	Floor	12/12/2013	16:13	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	1,940	<5,800
P0002-CR03-WP02-01	3	Near Window	Wood	Shelf	12/12/2013	16:14	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	4,850	<14,500
P0002-CR03-WP03-01	3	Dusty Area	Plastic	Television	12/12/2013	16:15	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	20	485	9,700
P0002-CR04-WP01-01	4	Entrance	Concrete	Floor	12/12/2013	16:02	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	20	485	9,700
P0002-CR04-WP02-01	4	Near Window	Wood	Book Shelf	12/12/2013	16:03	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	43	485	20,900
P0002-CR04-WP03-01	4	Dusty Area	Metal	Microwave	12/12/2013	16:04	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	10	485	4,850
P0002-CR05-WP01-01	5	Entrance	Concrete	Floor	12/13/2013	08:16	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	24	970	23,300
P0002-CR05-WP02-01	5	Near Window	Wood	Desk	12/13/2013	08:17	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	13	970	12,600
P0002-CR05-WP03-01	5	Dusty Area	Plastic	Television	12/13/2013	08:18	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	30	485	14,600
P0002-CR06-WP01-01	6	Entrance	Concrete	Floor	12/12/2013	14:14	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	19	485	9,220
P0002-CR06-WP02-01	6	Near Window	Wood	Desk	12/12/2013	14:15	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	486	<1,450
P0002-CR06-WP03-01	6	Dusty Area	Metal	File Cabinet	12/12/2013	14:17	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	27	486	13,100
P0002-CR07-WP01-01	7	Entrance	Concrete	Floor	12/13/2013	08:52	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	27	486	13,100
P0002-CR07-WP02-01	7	Near Window	Wood	Desk	12/13/2013	08:53	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	4	486	1,940
P0002-CR07-WP03-01	7	Dusty Area	Plastic	Television	12/13/2013	08:54	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	9	485	4,370
P0002-CR08-WP01-01	8	Entrance	Concrete	Floor	12/13/2013	08:58	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	4	485	1,940
P0002-CR08-WP02-01	8	Near Window	Wood	Table	12/13/2013	08:59	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	6	485	2,910
P0002-CR08-WP03-01	8	Dusty Area	Metal	File Cabinet	12/13/2013	08:59	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	5	485	2,430
P0002-CR09-WP01-01	9	Entrance	Vinyl	Floor Tile	12/12/2013	14:07	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	8	970	7,760
P0002-CR09-WP02-01	9	Near Window	Metal	File Cabinet	12/12/2013	14:09	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	7	485	3,400
P0002-CR09-WP03-01	9	Dusty Area	Vinyl/Plastic	Desk	12/12/2013	14:12	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	12	485	5,820
P0002-CR10-WP01-01	10	Entrance	Concrete	Floor	12/12/2013	14:21	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	20	9,700	194,000
P0002-CR10-WP02-01	10	Near Window	Vinyl/Plastic	Desk	12/12/2013	14:23	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	15	9,700	146,000
P0002-CR10-WP03-01	10	Dusty Area	Vinyl/Plastic	Desk	12/12/2013	14:24	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	22	970	21,300
P0002-CR11-WP01-01	11	Entrance	Vinyl	Tile	12/13/2013	08:12	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	13	485	6,310
P0002-CR11-WP02-01	11	Near Window	Wood	Desk	12/13/2013	08:13	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	11	485	5,340
P0002-CR11-WP03-01	11	Dusty Area	Wood	Shelf	12/13/2013	08:14	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	8	970	7,760
P0002-CR12-WP01-01	12	Entrance	Concrete	Tile Floor	12/12/2013	14:26	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	12	485	5,820
P0002-CR12-WP02-01	12	Near Window	Metal	Bottom of Student Desk	12/12/2013	14:28	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	13	485	6,310
P0002-CR12-WP03-01	12	Dusty Area	Wood	Bookshelf	12/12/2013	14:29	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	13	970	12,600
P0002-CR13-WP01-01	13	Entrance	Vinyl	Floor Tile	12/12/2013	14:33	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	4	485	1,940
P0002-CR13-WP02-01	13	Near Window	Painted Wood	Cubby Shelf	12/12/2013	14:34	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	3	485	1,460
P0002-CR13-WP03-01	13	Dusty Area	Plastic	Storage Bin	12/12/2013	14:35	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR14-WP01-01	14	Entrance	Vinyl	Floor Tile	12/12/2013	14:37	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	13	646	8,400
P0002-CR14-WP02-01	14	Near Window	Metal	Book Shelf	12/12/2013	14:38	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	4	1,940	7,760
P0002-CR14-WP03-01	14	Dusty Area	Metal	Computer Desk Drawer	12/12/2013	14:39	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	10	1,940	19,400
P0002-CR15-WP01-01	15	Entrance	Vinyl	Floor Tile	12/12/2013	14:42	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	6	1,940	11,600
P0002-CR15-WP02-01	15	Near Window	Metal	Filing Cabinet	12/12/2013	14:43	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	8	4,860	38,900
P0002-CR15-WP03-01	15	Dusty Area	Metal	Computer Tower	12/12/2013	14:44	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	4,860	<14,500

* Due to excessive particulate the analytical sensitivity of 260 str/cm² as required by the method was not reached.

NA - Not Applicable

str/cm2 - Structures per centimeter squared

Table 2: Validated Analytical Data Summary
Puerto Rico Olefins Asbestos Site
Peñuelas, Puerto Rico
December 12 and 13, 2013

Sample #	Classroom	Sample Area	Area Surface	Sample Location	Sample Date	Sample Time	Matrix	Collection	Analysis	Sample Type	Asbestos Type	Asbestos Structures	Sensitivity * (str/cm²)	Concentration (str/cm²)
P0002-CR16-WP01-01	16	Entrance	Concrete	Floor	12/12/2013	15:08	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	9,700	<29,000
P0002-CR16-WP02-01	16	Near Window	Wood	Shelve	12/12/2013	15:09	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	1,940	<5,800
P0002-CR16-WP03-01	16	Dusty Area	Metal	Refrigerator	12/12/2013	15:10	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	6	9,710	58,300
P0002-CR17-WP01-01	17	Entrance	Concrete	Floor	12/12/2013	15:15	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	4,850	<14,500
P0002-CR17-WP02-01	17	Near Window	Metal	Cabinet	12/12/2013	15:16	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	1,940	<5,800
P0002-CR17-WP03-01	17	Dusty Area	Wood	Cabinet	12/12/2013	15:17	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	1,940	<5,800
P0002-CR18-WP01-01	18	Entrance	Vinyl	Floor Tile	12/13/2013	08:23	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	4,850	<14,500
P0002-CR18-WP02-01	18	Near Window	Wood	Desk	12/13/2013	08:24	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	4	4,850	19,400
P0002-CR18-WP03-01	18	Dusty Area	Wood	Desk	12/13/2013	08:25	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	1,940	<5,800
P0002-CR19-WP01-01	19	Entrance	Concrete	Floor	12/12/2013	15:21	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	1,940	<5,800
P0002-CR19-WP02-01	19	Near Window	Wood	Shelf	12/12/2013	15:22	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	1,940	<5,800
P0002-CR19-WP03-01	19	Dusty Area	Wood	Shelf	12/12/2013	15:23	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	15	24,200	363,000
P0002-CR20-WP01-01	20	Entrance	Concrete	Floor	12/12/2013	15:32	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	1,940	<5,800
P0002-CR20-WP02-01	20	Near Window	Wood	Shelf	12/12/2013	15:33	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	1,940	<5,800
P0002-CR20-WP03-01	20	Dusty Area	Metal	Rolling Cart	12/12/2013	15:34	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	5	1,940	9,700
P0002-CR21-WP01-01	21	Entrance	Concrete	Floor	12/12/2013	15:38	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR21-WP02-01	21	Near Window	Coated Wood	Desk	12/12/2013	15:39	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR21-WP03-01	21	Dusty Area	Wood	Top of Closet	12/12/2013	15:40	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR22-WP01-01	22	Entrance	Vinyl	Floor Tile	12/12/2013	15:45	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	970	<2,900
P0002-CR22-WP02-01	22	Near Window	Metal	Book Shelf	12/12/2013	15:46	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR22-WP03-01	22	Dusty Area	Metal	Rolling Cart	12/12/2013	15:47	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	970	<2,900
P0002-CR23-WP01-01	23	Entrance	Concrete	Floor	12/12/2013	16:17	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	970	<2,900
P0002-CR23-WP02-01	23	Near Window	Wood	Shelf	12/12/2013	16:18	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	970	<2,900
P0002-CR23-WP03-01	23	Dusty Area	Metal	Bottom of Student Desk	12/12/2013	16:19	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	53	4,850	257,000
P0002-CR24-WP01-01	24	Entrance	Concrete	Floor	12/12/2013	16:09	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR24-WP02-01	24	Near Window	Wood	Book Shelf	12/12/2013	16:10	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	8	970	7,760
P0002-CR24-WP03-01	24	Dusty Area	Plastic	Diarama	12/12/2013	16:11	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	3	970	2,910
P0002-CR25-WP01-01	25	Entrance	Vinyl	Tile	12/13/2013	08:28	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	5	1,940	9,700
P0002-CR25-WP02-01	25	Near Window	Wood	Shelf	12/13/2013	08:29	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	9	1,940	17,500
P0002-CR25-WP03-01	25	Dusty Area	Wood	Shelf	12/13/2013	08:30	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	4	970	3,880
P0002-CR26-WP01-01	26	Entrance	Concrete	Floor	12/13/2013	09:03	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	<2.99	485	<1,450
P0002-CR26-WP02-01	26	Near Window	Plastic	Shelf	12/13/2013	09:04	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR26-WP03-01	26	Dusty Area	Wood	Shelf	12/13/2013	09:05	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR28-WP01-01	28	Entrance	Concrete	Tile	12/13/2013	09:09	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR28-WP02-01	28	Near Window	Wood	Desk	12/13/2013	09:10	Wipe	Grab	Asbestos - TEM	Field Sample	None Detected	<2.99	485	<1,450
P0002-CR28-WP03-01	28	Dusty Area	Metal	Shelf	12/13/2013	09:11	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	10	485	4,850
P0002-CR29-WP01-01	29	Entrance	Concrete	Floor	12/13/2013	09:13	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	10	1,940	19,400
P0002-CR29-WP02-01	29	Near Window	Wood	Desk	12/13/2013	09:14	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	8	485	3,880
P0002-CR29-WP03-01	29	Dusty Area	Metal	File Cabinet	12/13/2013	09:15	Wipe	Grab	Asbestos - TEM	Field Sample	Chrysotile	3	485	1,460
FB1-121213	Blank	NA	NA	NA	12/12/2013	14:00	Wipe	Grab	Asbestos - TEM	Field Blank	None Detected	<2.99	-	-
FB1-121313	Blank	NA	NA	NA	12/13/2013	08:30	Wipe	Grab	Asbestos - TEM	Field Blank	None Detected	<2.99	-	-
FB2-121213	Blank	NA	NA	NA	12/12/2013	15:00	Wipe	Grab	Asbestos - TEM	Field Blank	None Detected	<2.99	-	-
FB2-121313	Blank	NA	NA	NA	12/13/2013	09:00	Wipe	Grab	Asbestos - TEM	Field Blank	None Detected	<2.99	-	-
FB3-121213	Blank	NA	NA	NA	12/12/2013	16:00	Wipe	Grab	Asbestos - TEM	Field Blank	None Detected	<2.99	-	-
LB-121213	Blank	NA	NA	NA	12/12/2013	14:00	Wipe	Grab	Asbestos - TEM	Lot Blank	None Detected	<2.99	-	-

* Due to excessive particulate the analytical sensitivity of 260 str/cm² as required by the method was not reached.

NA - Not Applicable

str/cm² - Structures per centimeter squared

ATTACHMENT C

Chain of Custody Records and FedEx Airbill

USEPA

Date Shipped: 12/13/2013

RFP# 272D

PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-121213-105237-0004

Cooler #: 1

Lab: EMSL

Lab Phone: 858-303-2538

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
	FB1-121213	Asbestos TEM	Wipe	Grab	12/12/2013	14:00	1	Plastic Bag	None	0	0	cm	N
	LB-121213	Asbestos TEM	Wipe	Grab	12/12/2013	14:00	1	Plastic Bag	None	0	0	cm	N
	P0002-CR01-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:47	1	Plastic Bag	None	10	10	cm	N
	P0002-CR01-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:48	1	Plastic Bag	None	10	10	cm	N
	P0002-CR01-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:49	1	Plastic Bag	None	10	10	cm	N
	P0002-CR02-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:26	1	Plastic Bag	None	10	10	cm	N
	P0002-CR02-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:27	1	Plastic Bag	None	10	10	cm	N
	P0002-CR02-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:28	1	Plastic Bag	None	10	10	cm	N
	P0002-CR03-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:13	1	Plastic Bag	None	10	10	cm	N
	P0002-CR03-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:14	1	Plastic Bag	None	10	10	cm	N
	P0002-CR03-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:15	1	Plastic Bag	None	10	10	cm	N
	P0002-CR04-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:02	1	Plastic Bag	None	10	10	cm	N
	P0002-CR04-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:03	1	Plastic Bag	None	10	10	cm	N
	P0002-CR04-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:04	1	Plastic Bag	None	10	10	cm	N
	P0002-CR05-WP01-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:16	1	Plastic Bag	None	10	10	cm	N
	P0002-CR05-WP02-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:17	1	Plastic Bag	None	10	10	cm	N
	P0002-CR05-WP03-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:18	1	Plastic Bag	None	10	10	cm	N
	P0002-CR06-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:14	1	Plastic Bag	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST	12/13/13 1500			

DNB-X-1130A 12-14-13

22

DateShipped: 12/13/2013
RFP# 272D
PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-121213-105237-0004
Cooler #: 1
Lab: EMSL
Lab Phone: 858-303-2538

041333714

[illegible]

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all samples	Jed Petty RST2	12/13/10 1500			

USEPA

DateShipped: 12/13/2013
RFP# 272D
PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-121313-112124-0005

Cooler #: 1

Lab: EMSL

Lab Phone: 858-303-2538

041333716

Lab #	Sample #	Analyses	Matrix	Collecti on Method	Collected	Sample Time	Numb Cont	Container	Preservati ve	Area Width	Area Length	Vol Units	Lab QC
	FB2-121213	Asbestos TEM	Wipe	Grab	12/12/2013	15:00	1	Plastic Bag	None	0	0	cm	N
	P0002-CR07-WP03-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:54	1	Plastic Bag	None	10	10	cm	N
	P0002-CR08-WP01-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:58	1	Plastic Bag	None	10	10	cm	N
	P0002-CR08-WP02-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:59	1	Plastic Bag	None	10	10	cm	N
	P0002-CR08-WP03-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:59	1	Plastic Bag	None	10	10	cm	N
	P0002-CR09-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:07	1	Plastic Bag	None	10	10	cm	N
	P0002-CR09-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:09	1	Plastic Bag	None	10	10	cm	N
	P0002-CR09-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:12	1	Plastic Bag	None	10	10	cm	N
	P0002-CR10-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:21	1	Plastic Bag	None	10	10	cm	N
	P0002-CR10-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:23	1	Plastic Bag	None	10	10	cm	N
	P0002-CR10-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:24	1	Plastic Bag	None	10	10	cm	N
	P0002-CR11-WP01-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:12	1	Plastic Bag	None	10	10	cm	N
	P0002-CR11-WP02-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:13	1	Plastic Bag	None	10	10	cm	N
	P0002-CR11-WP03-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:14	1	Plastic Bag	None	10	10	cm	N
	P0002-CR12-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:26	1	Plastic Bag	None	10	10	cm	N
	P0002-CR12-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:28	1	Plastic Bag	None	10	10	cm	N
	P0002-CR12-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:29	1	Plastic Bag	None	10	10	cm	N
	P0002-CR13-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:33	1	Plastic Bag	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples will analyze	Jed Pety RSIT	12/13/13 1500			
			DNB-SX-1130A	12.14.13	



USEPA

DateShipped: 12/13/2013
RFP# 272D
PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-121313-112124-0005

Cooler #: 1
Lab: EMSL
Lab Phone: 858-303-2538

041333716

[illegible]

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analysis	Jed Rety RST	12/13/13 1500			

USEPA

Date Shipped: 12/13/2013

RFP# 272D

PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-121313-112316-0006

Cooler #: 1

Lab: EMSL

Lab Phone: 858-303-2538

041333715

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
	FB3-121213	Asbestos TEM	Wipe	Grab	12/12/2013	16:00	1	Plastic Bag	None	0	0	cm	N
	P0002-CR14-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:38	1	Plastic Bag	None	10	10	cm	N
	P0002-CR14-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:39	1	Plastic Bag	None	10	10	cm	N
	P0002-CR15-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:42	1	Plastic Bag	None	10	10	cm	N
	P0002-CR15-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:43	1	Plastic Bag	None	10	10	cm	N
	P0002-CR15-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	14:44	1	Plastic Bag	None	10	10	cm	N
	P0002-CR16-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:08	1	Plastic Bag	None	10	10	cm	N
	P0002-CR16-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:09	1	Plastic Bag	None	10	10	cm	N
	P0002-CR16-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:10	1	Plastic Bag	None	10	10	cm	N
	P0002-CR17-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:15	1	Plastic Bag	None	10	10	cm	N
	P0002-CR17-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:16	1	Plastic Bag	None	10	10	cm	N
	P0002-CR17-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:17	1	Plastic Bag	None	10	10	cm	N
	P0002-CR18-WP01-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:23	1	Plastic Bag	None	10	10	cm	N
	P0002-CR18-WP02-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:24	1	Plastic Bag	None	10	10	cm	N
	P0002-CR18-WP03-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:25	1	Plastic Bag	None	10	10	cm	N
	P0002-CR19-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:21	1	Plastic Bag	None	10	10	cm	N
	P0002-CR19-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:22	1	Plastic Bag	None	10	10	cm	N
	P0002-CR19-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:23	1	Plastic Bag	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S Sumbaly@WestonSolutions.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST	12/13/13 1500			11:43

DNB-44-1130A 12.14.13

(21)

USEPA

DateShipped: 12/13/2013

RFP# 272D

PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-121313-112316-0006

Cooler #: 1

Lab: EMSL

Lab Phone: 858-303-2538

041333715

[illegible]

2013 DEC 14 AM 11:43

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples analyzed	Joe Petty BS TD	12/13/13 1500			...
					...
					...
					...

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-121313-112434-0007

Cooler #: 1

Lab: EMSL

Lab Phone: 858-303-2538

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Number Cont	Container	Preservative	Area Width	Area Length	Volume Units	Lab QC
	FB1-121313	Asbestos TEM	Wipe	Grab	12/13/2013	08:30	1	Plastic Bag	None	0	0	cm	N
	P0002-CR21-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:38	1	Plastic Bag	None	10	10	cm	N
	P0002-CR21-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:39	1	Plastic Bag	None	10	10	cm	N
	P0002-CR21-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:40	1	Plastic Bag	None	10	10	cm	N
	P0002-CR22-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:45	1	Plastic Bag	None	10	10	cm	N
	P0002-CR22-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:46	1	Plastic Bag	None	10	10	cm	N
	P0002-CR22-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	15:47	1	Plastic Bag	None	10	10	cm	N
	P0002-CR23-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:17	1	Plastic Bag	None	10	10	cm	N
	P0002-CR23-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:18	1	Plastic Bag	None	10	10	cm	N
	P0002-CR23-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:19	1	Plastic Bag	None	10	10	cm	N
	P0002-CR24-WP01-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:09	1	Plastic Bag	None	10	10	cm	N
	P0002-CR24-WP02-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:10	1	Plastic Bag	None	10	10	cm	N
	P0002-CR24-WP03-01	Asbestos TEM	Wipe	Grab	12/12/2013	16:11	1	Plastic Bag	None	10	10	cm	N
	P0002-CR25-WP01-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:28	1	Plastic Bag	None	10	10	cm	N
	P0002-CR25-WP02-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:29	1	Plastic Bag	None	10	10	cm	N
	P0002-CR25-WP03-01	Asbestos TEM	Wipe	Grab	12/13/2013	08:30	1	Plastic Bag	None	10	10	cm	N
	P0002-CR26-WP01-01	Asbestos TEM	Wipe	Grab	12/13/2013	09:03	1	Plastic Bag	None	10	10	cm	N
	P0002-CR26-WP02-01	Asbestos TEM	Wipe	Grab	12/13/2013	09:04	1	Plastic Bag	None	10	10	cm	N

RECEIVED
EMSL
CINNAMINSON, N.J.
Z Z Z Z Z Z Z Z
03 DEC 14 A 11: L

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all sample handbags	Juel Petty RST	12/13/13 1500			
			DWB-EX-11307	12.14.13	

①

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-121313-112434-0007

Cooler #: 1

Lab: EMSL

Lab Phone: 858-303-2538

[illegible]

RECEIVED	EMSL		
CINNAMINSON, N.J.			
2013 DEC 14	A 11:40		

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analysis	Jed Petty RST2	12/13/13 1500			

DateShipped: 12/13/2013
RFP# 272D
PO# 0084577

CHAIN OF CUSTODY RECORD

Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-121313-112542-0008
Cooler #: 1
Lab: EMSL
Lab Phone: 858-303-2538

041333718

[illegible]

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel Pettit@WestonSolutions.com, and S Sumbaly@WestonSolutions.com

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
cell samples cell analyses	Jr. P. Bly RSTZ	12/13/13 1500			
			DWB-A-1130A	12.14.13	

29

**804298940331**

Ship (P/U) date :

Fri 12/13/2013 4:11 pm

SANTURCE, PR US

**Delivered**

Signed for by: D.BAYER

Actual delivery :

Sat 12/14/2013 11:17 am

CINAMINSON, NJ US

Travel History

Date/Time	Activity	Location
- 12/14/2013 - Saturday		
11:17 am	Delivered	CINAMINSON, NJ
10:14 am	On FedEx vehicle for delivery	MOUNT LAUREL, NJ
9:46 am	At local FedEx facility	MOUNT LAUREL, NJ
7:58 am	At destination sort facility	PHILADELPHIA, PA
5:14 am	Departed FedEx location	MEMPHIS, TN
12:37 am	Arrived at FedEx location	MEMPHIS, TN
- 12/13/2013 - Friday		
6:04 pm	Left FedEx origin facility	PONCE, PR
4:11 pm	Picked up	PONCE, PR

Local Scan Time

Shipment Facts

Tracking number	804298940331	Service	FedEx International Priority
Weight	3.2 lbs	Dimensions	18x12x3 in.
Signature services	Indirect signature required	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	3.2 lbs / 1.5 kgs
Shipper reference	7123	Packaging	FedEx Box
Special handling section	For Saturday Delivery, Indirect Signature Required		

ATTACHMENT D

Photographic Documentation Log

Photographic Documentation Log
Puerto Rico Olefins Asbestos Site
Peñuelas, Puerto Rico
December 12 and 13, 2013



Photo 1: Sample P0002-CR09-WP01-01. Example of a location near an entrance.



Photo 2: Sample P0002-CR19-WP02-01. Example of a location near a window.

Photographic Documentation Log
Puerto Rico Olefins Asbestos Site
Peñuelas, Puerto Rico
December 12 and 13, 2013

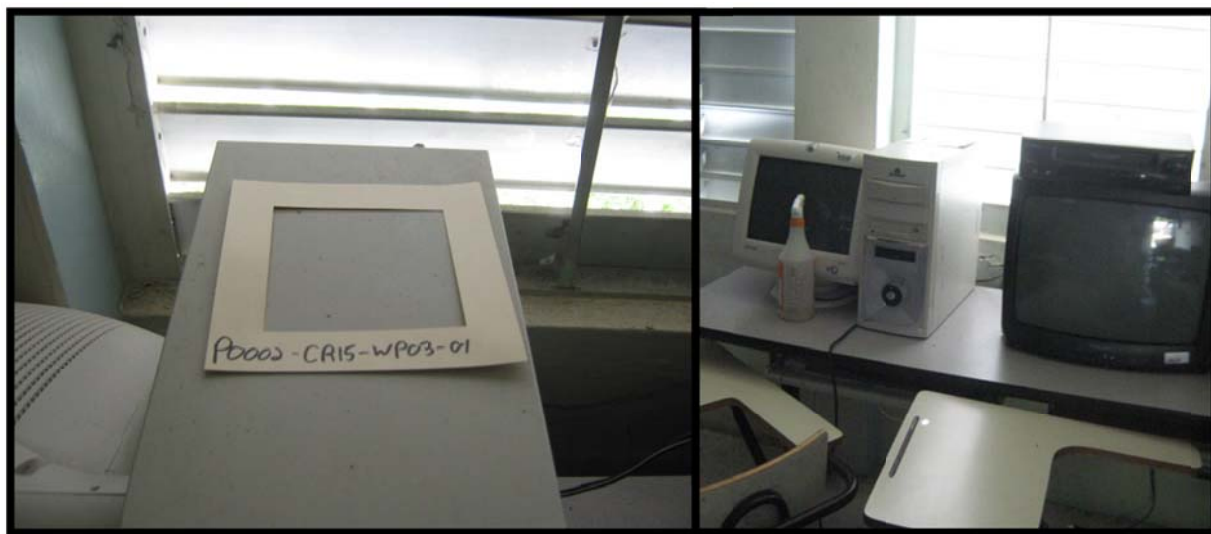


Photo 3: Sample P0002-CR15-WP03-01. Example of a location with the most dust in the room.



Photo 4: Sample P0002-CR23-WP03-01. Location with an asbestos concentration of 257,000 str/cm².